

Taxon	Distribution of palatal dentition					Palatal tooth arrangements				References
	vomer	palatine	pterygoid	parasphenoid	ectopterygoid	shagreen	parallel to the jaw margin	longitudinal tooth row	posterior transverse flange tooth row	
<b>Mesosauridae</b>										
<i>Mesosaurus</i>	x	x	x	-	-	-	-	-	-	Modesto, 2006
<i>Stereosternum</i>	?	?	x	?	?	?	?	?	?	Modesto, 1999
<b>Millerettidae</b>										
<i>Millerosaurus</i>	x	x	x	x	x	-	-	x	x	Carroll, 1988
<i>Eunotosaurus</i>	?	?	x	-	?	?	?	?	x	Gow, 1997; Tsuji et al. 2012
<i>Microleter</i>	?	?	?	?	?	?	?	?	?	Tsuji et al. 2010
<i>Australothyris</i>	x	x	x	x	-	-	-	x	x	Tsuji et al. 2012; Modesto et al. 2009
<i>Lanthanosuchus</i>	x	x	x	x	x	-	-	x	x	Efremov, 1946; DeBraga & Reisz, 1996
<i>Acleistorhinus</i>	x	x	x	x	-	-	-	x	x	DeBraga & Reisz, 1996
<b>Bolosauridae</b>										
<i>Bolosaurus</i>	-	-	-	-	-	-	-	-	-	Watson, 1954
<i>Belebey</i>	-	-	x	-	-	-	-	-	x	Müller et al. 2008; Tsuji et al. 2012; Ivakhnenko & Tverdochlebova, 1987
<i>Eudibamus</i>	-	-	-	-	-	-	-	-	-	Berman et al., 2000; Müller et al. 2008
<i>Nyctiphruretus</i>	x	x	x	-	x	-	-	x	x	Säilä, 2010; Carroll, 1988; Tsuji et al. 2012
<i>Procolophon</i>	x	x	x	-	-	-	-	x	-	Carroll & Lindsay, 1985; Cisneros, 2008; Tsuji et al. 2012
<i>Barasaurus</i>	?	?	?	-	-	?	?	?	-	Tsuji et al. 2012; Piveteau, 1955
<i>Owenetta</i>	x	x	x	-	-	-	-	x	-	Reisz & Scott, 2002
<i>Bradyaurus</i>	x	x	x	-	-	-	-	x	x	Tsuji et al. 2012; Kuhn, 1969
<i>Scutosaurus</i>	x	x	x	-	-	-	-	x	x	Tsuji et al. 2012
<i>Pareiasuchus</i>	x	x	x	-	-	-	-	x	x	Lee et al. 1997
<i>Macroleter</i>	x	x	x	-	-	x	-	x	x	Tsuji, 2006; Carroll, 1988
<i>Rhipaeosaurus</i>	?	?	x	-	?	?	?	?	x	Tsuji et al. 2012; Kuhn, 1969
<i>Emeroleter</i>	x	x	x	-	?	-	-	x	x	Tsuji et al. 2012
<i>Nycteroleter</i>	x	x	x	-	x	-	-	x	x	Tverdochlebova & Ivakhnenko, 1984
<i>Bashkyroleter mesensis</i>	x	x	x	-	-	-	x	x	x	Ivakhnenko, 1997